



App No.: 10/700,816

Expr Mail #: EV 957647573 US

Docket No.: UMY-038

Inventor: Zuoshang XU et al.

Title: ALLELE-SPECIFIC RNA INTERFERENCE  
REPLACEMENT SHEET

Sheet 1 of 8

mutant siRNA p9

5'-UGGAGACUUG~~CGCAAUGUGd~~TdT-3' Sense, (Seq ID No.:1)  
3'-dTdT~~ACCU~~CUGAAC~~CG~~GUUACAC-5' Antisense, (Seq ID No.:2)

p10

5'-GGAGACUUG~~CGCAAUGUGAd~~TdT-3' Sense, (Seq ID No.:3)  
3'-dTdT~~CC~~CUCUGAAC~~CG~~GUUACACU-5' Antisense, (Seq ID No.:4)

p11

5'-GAGACUUG~~CGCAAUGUGAc~~TdT-3' Sense, (Seq ID No.:5)  
3'-dTdT~~CU~~CUGAAC~~CG~~GUUACACUG-5' Antisense, (Seq ID No.:6)

sod1 wild type 5' - ... GAGAGGCAUGUUGGAGACUUG~~CGCAAUGUGAC~~UGCUGACAAAGAUGGU...-3' (Seq ID No.:7)  
sod1 mutant 5' - ... GAGAGGCAUGUUGGAGACUUG~~CGCAAUGUGAC~~UGCUGACAAAGAUGGU...-3' (Seq ID No.:8)

wild-type siRNA p11

5'-GAGACUUG~~CGCAAUGUGAc~~TdT-3' Sense, (Seq ID No.: 9)  
3'-dTdT~~CU~~CUGAAC~~CG~~GUUACACUG-5' Antisense, (Seq ID No.:10)

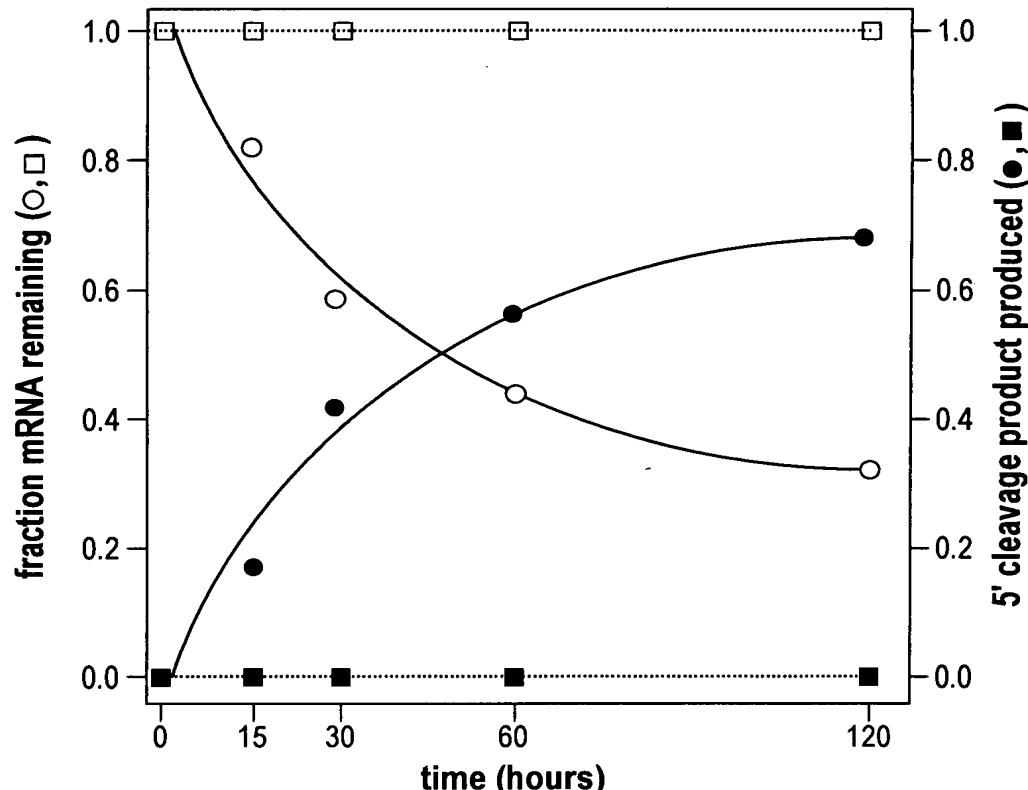
p10

5'-GGAGACUUG~~CGCAAUGUGAd~~TdT-3' Sense, (Seq ID No.:11)  
3'-dTdT~~CC~~CUCUGAAC~~CG~~GUUACACU-5' Antisense, (Seq ID No.:12)

p9

5'-UGGAGACUUG~~CGCAAUGUGd~~TdT-3' Sense, (Seq ID No.:13)  
3'-dTdT~~ACCU~~CUGAAC~~CG~~GUUACAC-5' Antisense, (Seq ID No.:14)

*Fig. 1A*



*Fig. 1B*

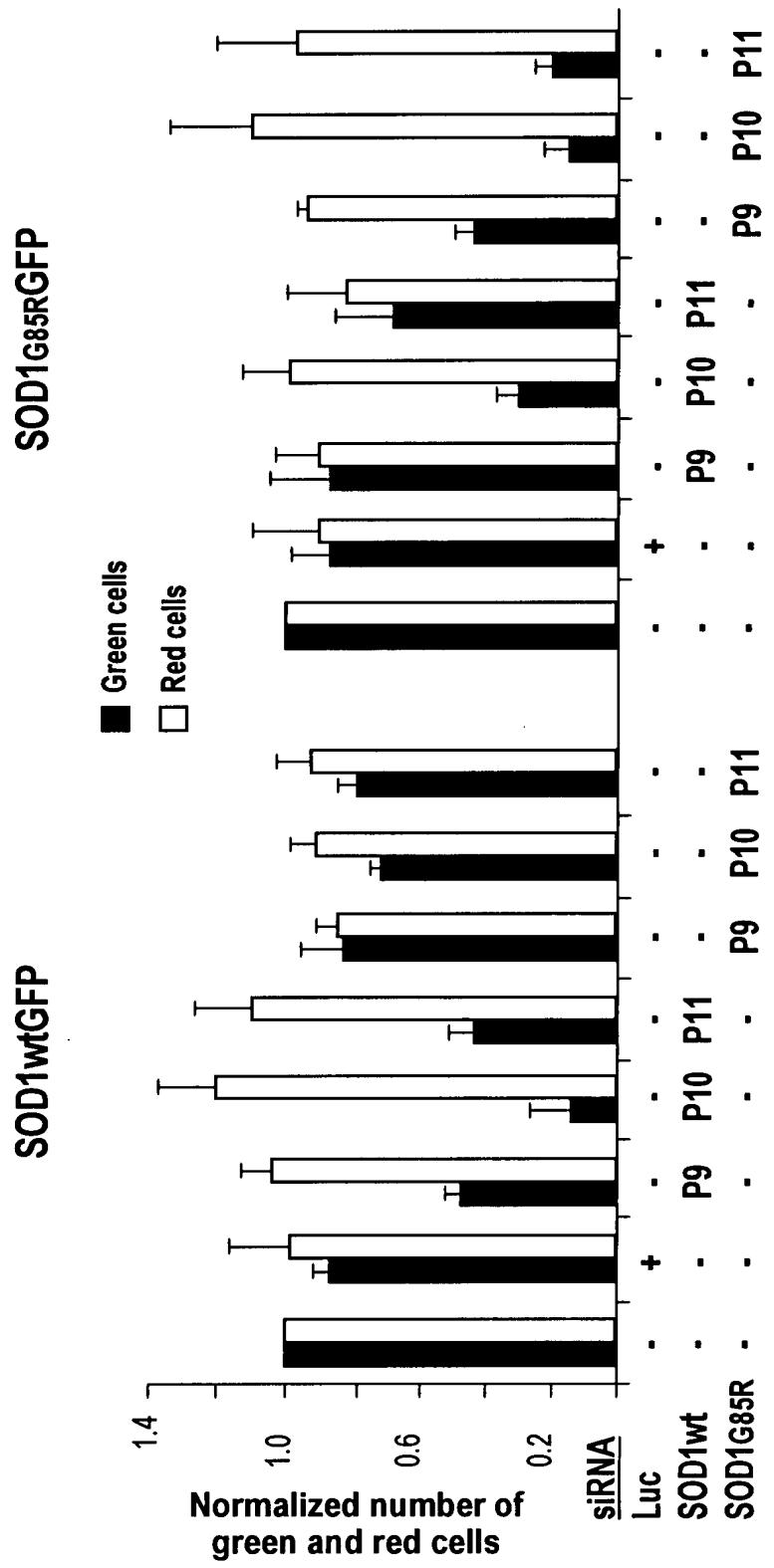


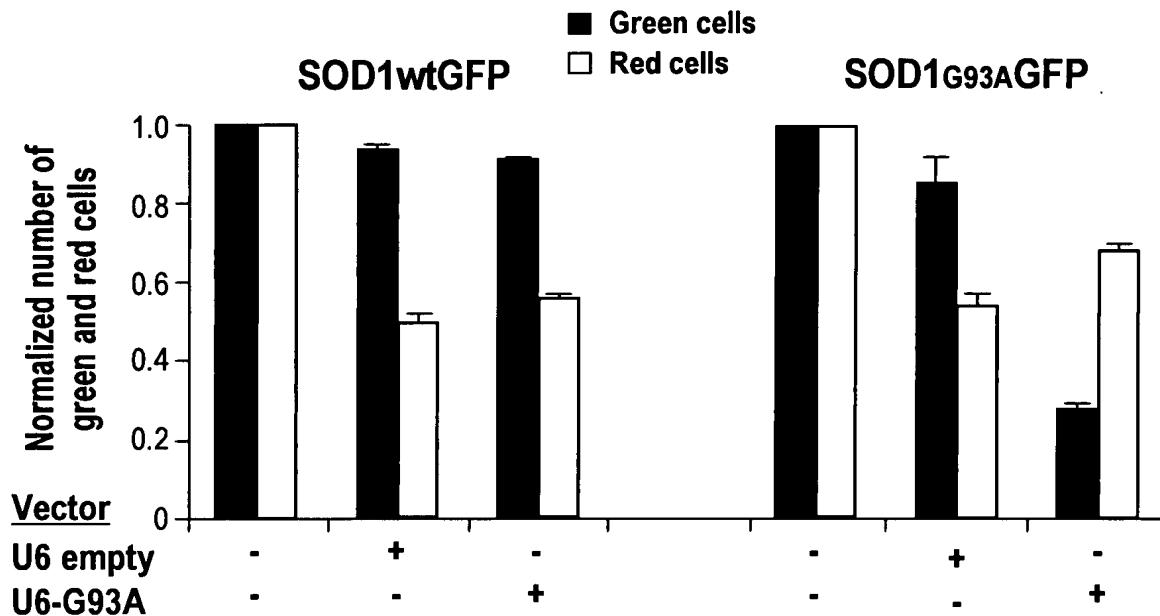
Fig. 2

Wild type SOD1

5' - ...ACTGCTGACAAAGATGGTGTGGCCGATGTGTCTAT...-3'

G93AshRNA      GACAAAGAUGCUGUGGCCGAU<sup>AA</sup><sub>G</sub>  
                  UUUUCUGUUUCUACGACACCGGCUA<sub>UU</sub><sup>C</sup>

*Fig. 3A*



*Fig. 3B*

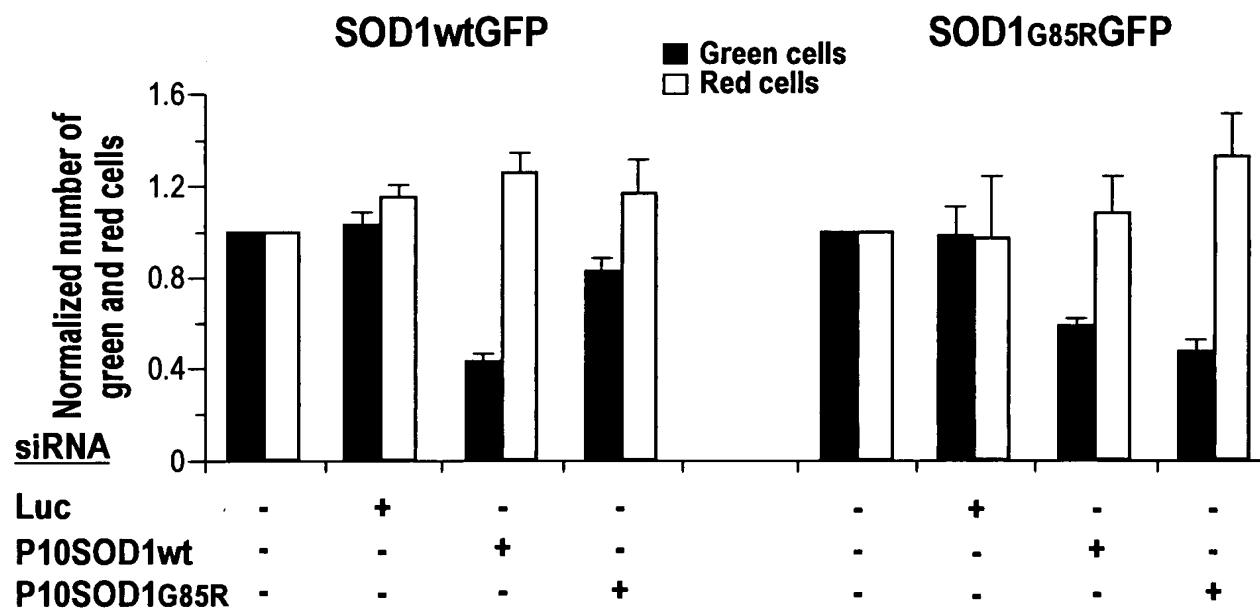


Fig. 4A

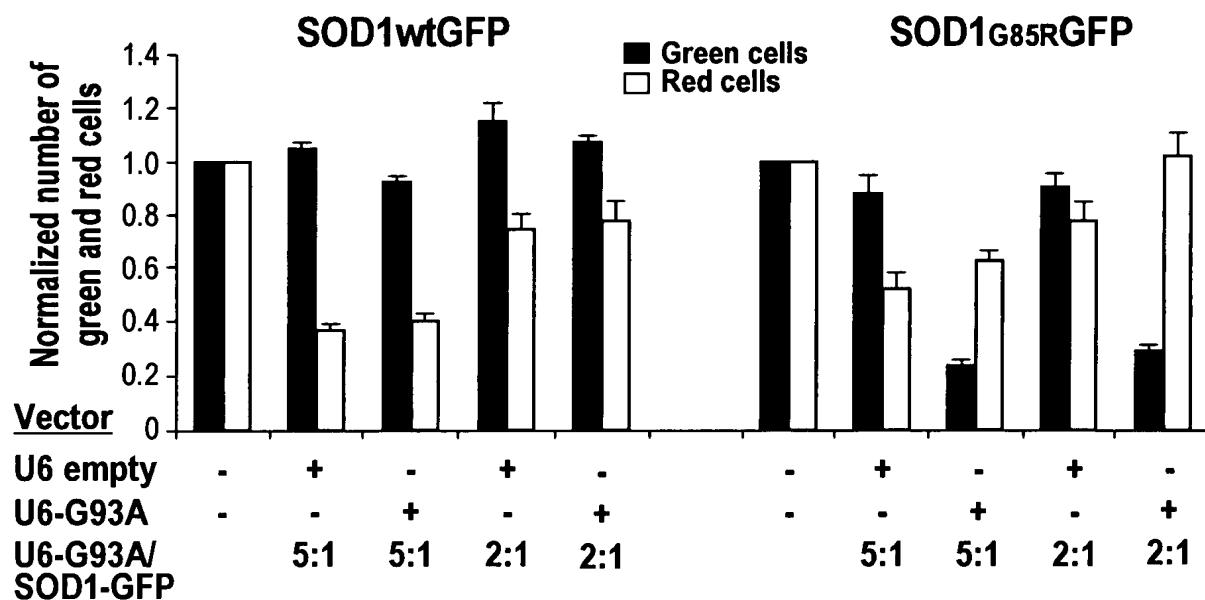
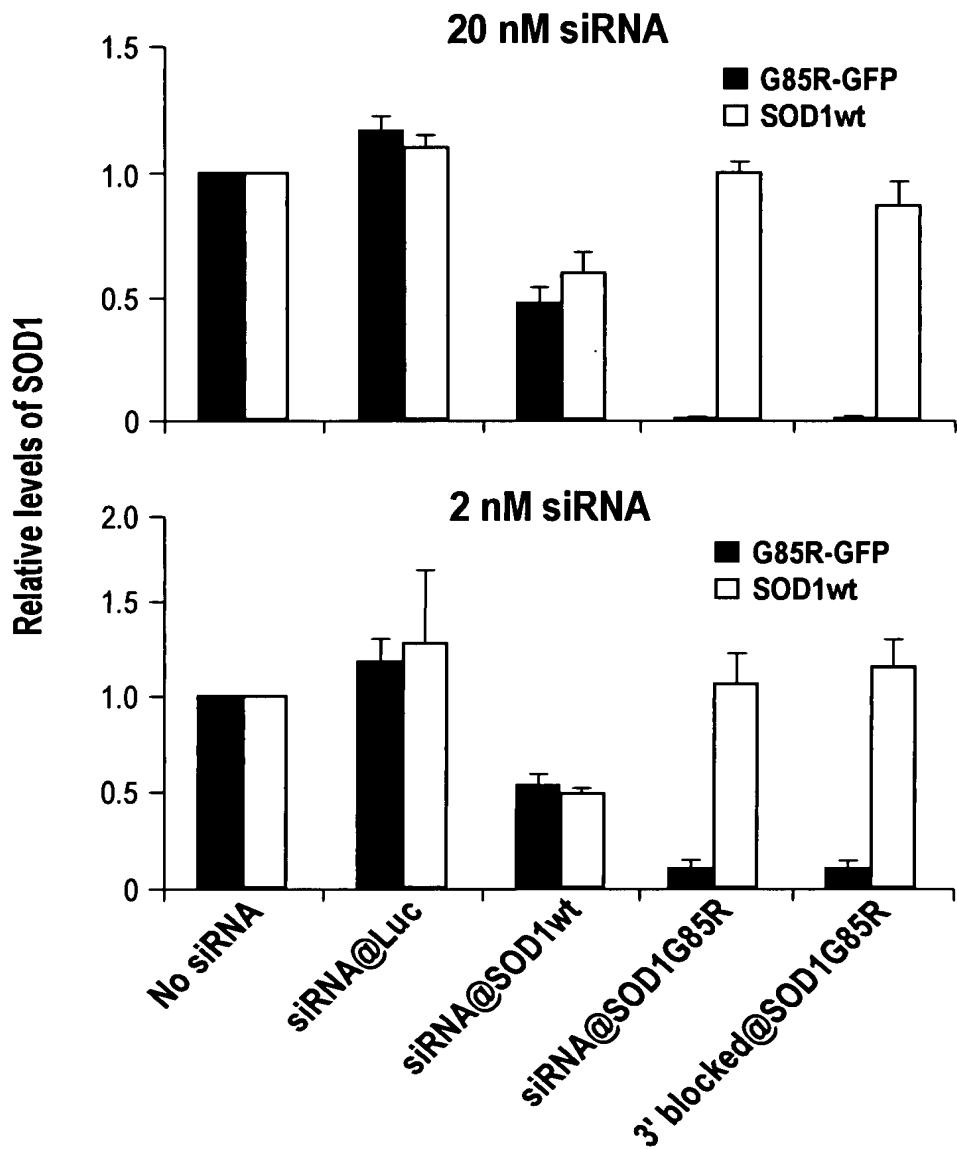
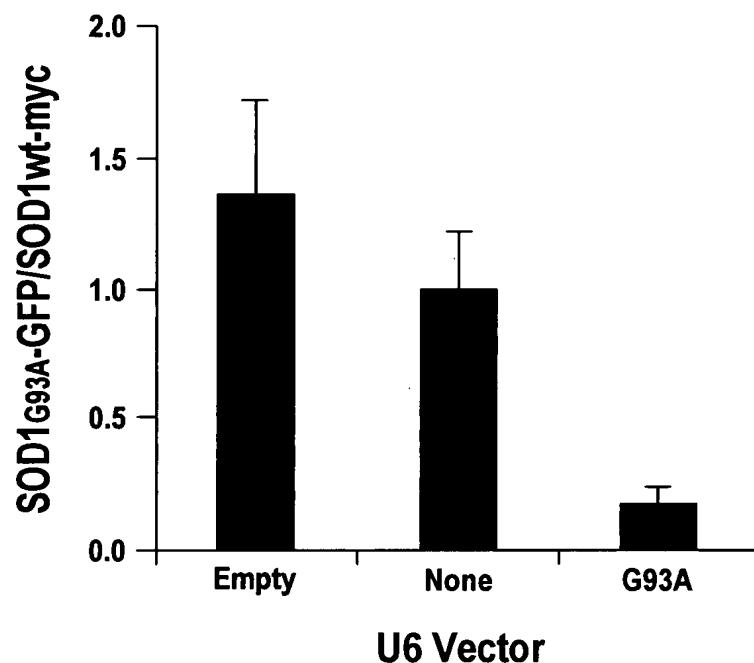


Fig. 4B



*Fig. 5*



*Fig. 6*

atkavcv1k gdgpvqgiin feqkesngpv kvgwsikglt eglhgfhvhe fgdn tagcts  
agphfnplsr khggpkdeer hvgd1gnvta dkdgvadvsi edsvislsgd hciigrtlvv  
hekadd1gkg gneestktgn agsrlacgvi giaq

*Fig. 7*

9cgacgaaagg ccgtgtgcgt gctgaaggcc gacggcccg tgcagggcat catcaaattc gaggagaagg  
aaggtaatgg accagtggaa gtgtgggaa gcattaaagg actgactgaa ggcctgcgt gattccatgt  
tcatgagttt ggagataata cagcaggctg taccagtgcg ggtccctcact ttaatccctt atccagaaaa  
cacgggtggc caaaggatga agagaggcat gttggagact tggcaatgt gactgctgac aaagatggtg  
tggcccgatgt gtctatgtaa gattctgtga tctcaactctc aggagaccat tgcatcattg gccgcacact  
ggtgttccat gaaaaggcag atgacttggg caaagggtgg aatgaaaggaa atgaaaggac aggaaaacgct  
gaaagtgcgtt tggcttgcgtt tgtaatttggg atcgcccaa

*Fig. 8*

Fig. 9